# SAC-3P- 5,0-U50/MINFR - Power cable

1417095

https://www.phoenixcontact.com/us/products/1417095

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Power cable, 3-position, PVC, black, free cable end, on Socket angled 7/8"-16UNF, coding: A, cable length: 5 m

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components

## Commercial data

| | |
|---|---|
| Item number | 1417095 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF14 |
| Product key | AF1IMC |
| GTIN | 4055626222325 |
| Weight per piece (including packing) | 22.22 g |
| Weight per piece (excluding packing) | 22.22 g |
| Customs tariff number | 85444290 |
| Country of origin | MX |

# Technical data

## Product properties

| | |
|---|---|
| Product type | Sensor/actuator cable |
| Application | Standard |
| Number of positions | 3 |
| Shielded | no |
| Coding | A |

## Material specifications

| | |
|---|---|
| Flammability rating according to UL 94 | V0 |
| Material of grip body | PVC |
| Contact material | CuZn |
| Contact surface material | Au |
| Contact carrier material | PVC |
| Material for screw connection | Anodized aluminum |

## Electrical properties

| | |
|---|---|
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage $U_N$ | 600 V AC/DC (UL rating) |
| | 50 V AC/DC (IEC rating) |
| Nominal current $I_N$ | 23.5 A (UL 2238) |
| | 7 A (UL 2237) |

## Mechanical properties

Mechanical data

| | |
|---|---|
| Insertion/withdrawal cycles | 100 |

## Signaling

| | |
|---|---|
| Status display | no |
| Status display present | no |

## Connection data

Conductor connection

| | |
|---|---|
| Tightening torque | 10 $lb_f$-in. |
| | 1.12 Nm |

## Connector

Connection 1

| | |
|---|---|
| Type | free cable end |

Connection 2

| | |
|---|---|
| Type | Socket angled 7/8"-16UNF |

| | |
|---|---|
| Number of positions | 3 |
| Coding type | A |

## Cable/line

| | |
|---|---|
| Cable length | 5 m |

TC-ER/600V, STOOW [U50]

| | |
|---|---|
| Number of positions | 3 |
| Shielded | no |
| Cable type | TC-ER/600V, STOOW [U50] |
| Conductor structure, voltage supply | 104 x AWG 34 |
| Conductor cross-section | 3 x AWG 14 |
| External cable diameter | 13.50 mm |
| Outer sheath, material | PVC |
| External sheath, color | black |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | PVC |
| Single wire, color | green 1, black 2, white 3 |
| Overall twist | 3 wires, twisted |
| Nominal voltage, cable | 600 V |
| Flame resistance | UL 1581, FT2 |
| Resistance to oil | Premium oil resistance (jacket and conductor) |
| Other resistance | UV resistant (720 h) (UL 2556) |
| Ambient temperature (operation) | -40 °C ... 105 °C (cable, fixed installation) |
| | -30 °C ... 105 °C (Cable, flexible installation) |

## Environmental and real-life conditions

Ambient conditions

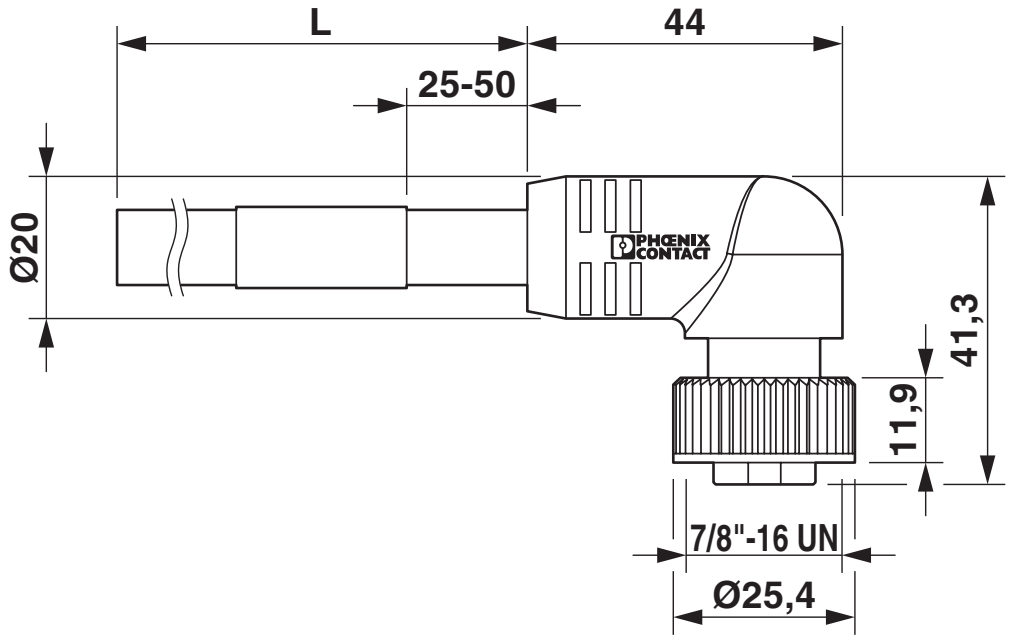
| | |
|---|---|
| Degree of protection | IP68 |
| Ambient temperature (operation) (male connector/female connector) | -20 °C ... 105 °C (Plug / socket) |
| Ambient temperature (operation) | -20 °C ... 105 °C (Plug / socket) |
| Ambient temperature (operation) (Cable, fixed installation) | -40 °C ... 105 °C (cable, fixed installation) |
| Ambient temperature (operation) (Cable, flexible installation) | -30 °C ... 105 °C (Cable, flexible installation) |

## Standards and regulations

| | |
|---|---|
| Standards/specifications | UL 2237, UL 2238 |

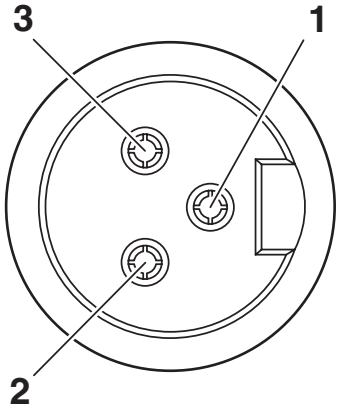
## Drawings

Dimensional drawing



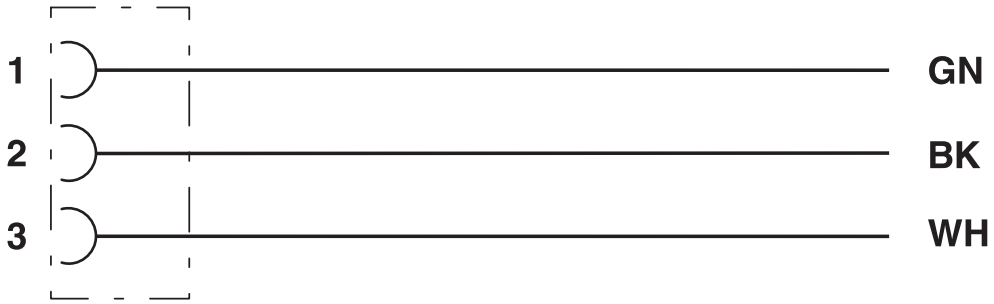

7/8"-16UNF socket, angled

Schematic diagram




Pin assignment, socket, 7/8"-16UNF, 3-pos., view of female side

Circuit diagram




Contact assignment of 7/8" socket

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1417095

**UL Listed**
Approval ID: FILE E 221474

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Approval ID: FILE E 221474

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27060311 |
| ECLASS-15.0 | 27060311 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC001855 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 31251501 |

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 12.418 kg CO2e |

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